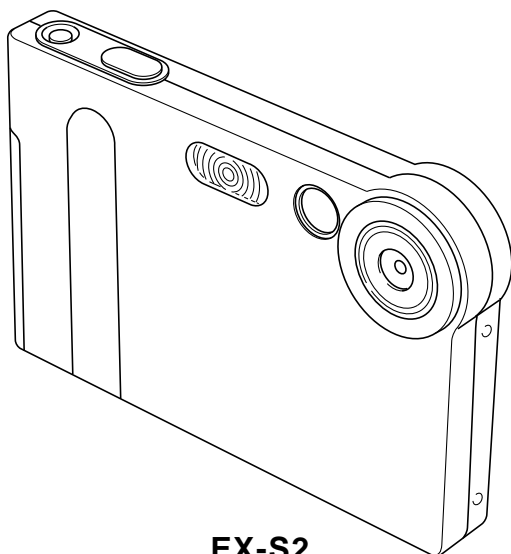


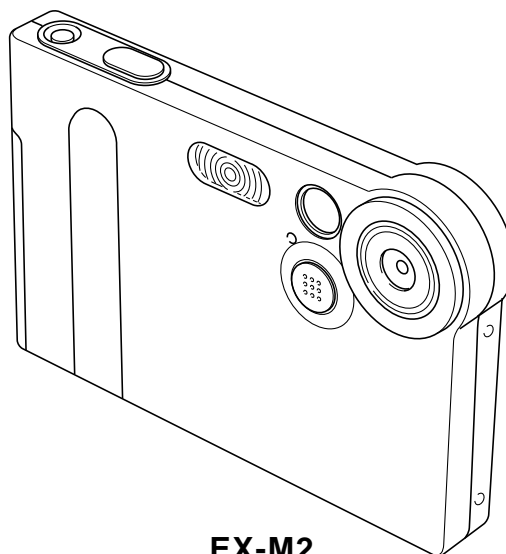
SERVICE MANUAL & PARTS LIST (without price)

EX-S2/M2

SEP. 2002



EX-S2



EX-M2

CASIO®

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SPECIFICATIONS

Image Files Format	Snapshots: JPEG (Exif Version 2.2); DCF (Design Rule for Camera File System)1.0 standard; DPOF compliant Movies: AVI (Motion JPEG) Audio: WAV (EX-M2 only)
Recording Media	12 MB built-in flash memory SD Memory Card MultiMedia Card
Image Size	Snapshots: 1600 x 1200 pixels 1280 x 960 pixels 640 x 480 pixels Movies: 320 x 240 pixels

Approximate Memory Capacity and File sizes

• Snapshots

File Size (pixels)	Quality	Approximate Image File Size	Built-in flash memory 12MB	SD Memory Card* 64MB
1600 x 1200 (UXGA)	Fine	900 KB	11 shots	60 shots
	Normal	630 KB	16 shots	85 shots
	Economy	370 KB	29 shots	154 shots
1280 x 960 (SXGA)	Fine	680 KB	15 shots	82 shots
	Normal	460 KB	24 shots	126 shots
	Economy	250 KB	42 shots	220 shots
640 x 480 (VGA)	Fine	190 KB	56 shots	294 shots
	Normal	140 KB	75 shots	386 shots
	Economy	90 KB	118 shots	618 shots

• Movies (320 x 240 pixels)

Data Size	150 KB/second max.
Recording Time	One Movie: 30 seconds maximum Total Movie Time: 80 seconds maximum (built-in memory) 410 seconds maximum (SD 64 MB memory card)*

* Based on Matsushita Electric Industrial Co., Ltd. products. Capacity depends on card manufacturer.

* To determine the number of images that can be stored on a memory card of a different capacity, multiply the capacities in the table by the appropriate value.

Delete	Single-file, all files (with protection)
Effective Pixels	2.0 million
Imaging Element	1/1.8-inch square pixel color CCD (Total pixels: 2.11 million)
Lens/Focal Distance	F3.2/f = 7.5 mm (Equivalent to 36 mm on a 35 mm film camera.)
Zoom	4X digital zoom
Focusing	Fixed focal point
Approximate Focus Range (from lens surface)	1m to ∞

Exposure Control	Metering: Multi-pattern by imaging element Exposure: Program AE Exposure Compensation: -2EV to +2EV (in 1/3EV steps)								
Shutter	CCD shutter, mechanical shutter 1/4 to 1/6400 second								
Aperture	F3.2 fixed								
White Balance	Automatic/fixed (4 modes) /Manual								
Self-timer	10 seconds								
Built-in Flash	Flash Modes: Auto, Off, On, Red-eye reduction Approximate Flash Range: 1 meter to 2 meters								
Recording Functions	Snapshot (with audio for EX-M2 only); self-timer; Best Shot; Movie (with audio for EX-M2 only); voice recording (EX-M2 only) * Audio is monaural								
Audio Recording Time (EX-M2 only)	Audio Snapshot: Approximately 30 seconds maximum per image Voice Recording: Approximately 50 minutes with built-in memory After Recording: Approximately 30 seconds maximum per image								
Monitor Screen	1.6-inch TFT color LCD 84,960 pixels (354 x 240)								
Viewfinder	Monitor screen and optical viewfinder								
Timekeeping Functions	Built-in quartz digital clock Date and Time: Recorded with image data Auto Calendar: To 2049								
Input/Output Terminals	Cradle connector (EX-M2 connector is also used for connection of remote controller.)								
Speaker (EX-M2 only)	20mm round, monaural								
Audio Player Function (EX-M2 Only)	Data Compression/Decompression: MP3 (MPEG-1 Audio Layer-3) Sampling Frequencies: 32 kHz, 44.1 kHz, 48 kHz Bit Rates: 32 to 320 kbps, VBR-compatible Play Mode: Normal, all track repeat, 1-track repeat Practical Maximum Headphone Output: 9 mW + 9 mW (16 Ω)								
Power Supply	Power Requirements: Rechargeable lithium ion battery (NP-20) x 1								
Approximate Battery Life: <table border="1" data-bbox="190 1404 1146 1549"> <tr> <td>Continuous Recording</td><td>65 minutes (390 shots)</td></tr> <tr> <td>Continuous Playback (Continuous Snapshot Recording)</td><td>110 minutes</td></tr> <tr> <td>Continuous Voice Recording*</td><td>80 minutes</td></tr> <tr> <td>Continuous Audio Playback*</td><td>330 minutes</td></tr> </table> <p>The values noted above are approximate values until power fails, based on continuous recording with flash off, at normal temperature (25°C). The above does not guarantee that you will be able to achieve this level of operation. Low temperatures shorten battery life. Voice recording times are based on continuous recording, while audio playback times are based on continuous output (through headphones).</p> <p>* Voice recording and audio playback times apply to the EX-M2 only.</p>		Continuous Recording	65 minutes (390 shots)	Continuous Playback (Continuous Snapshot Recording)	110 minutes	Continuous Voice Recording*	80 minutes	Continuous Audio Playback*	330 minutes
Continuous Recording	65 minutes (390 shots)								
Continuous Playback (Continuous Snapshot Recording)	110 minutes								
Continuous Voice Recording*	80 minutes								
Continuous Audio Playback*	330 minutes								
Power Consumption	DC 3.7 V Approximately 3.1 W								

Dimensions	EX-S2: 88(W) x 55(H) x 11.3(D) mm (3.5"(W) x 2.2"(H) x 0.4"(D)) (excluding projections) EX-M2: 88(W) x 55(H) x 12.4(D) mm (3.5"(W) x 2.2"(H) x 0.5"(D)) (excluding projections)
Weight	EX-S2: Approximately 88 g (3.1 oz) (excluding battery and accessories) EX-M2: Approximately 90 g (3.2 oz) (excluding battery and accessories)
Bundled Accessories	Rechargeable lithium ion battery (NP-20); USB Cradle; Special AC Adaptor; AC power cord; Strap; Special USB cable; Dummy Card; Connector Cover; LCD Remote Controller (bundled with EX-M2 only); Stereo Headphones (bundled with EX-M2 only); CD-ROM; Basic Reference; Rechargeable Lithium Ion Battery User's Guide
USB Cradle	Input/Output Terminals: Camera connector; USB port; AC adaptor terminal (DC IN 5.3 V) Power Consumption: DC 5.3V Approximately 3.4W Dimensions: 95(W) x 55.5(H) x 39.5(D) mm (3.7"(W) x 2.2"(H) x 1.6"(D)) (excluding projections) Weight: Approximately 56 g (2.0 oz)
LCD Remote Controller (Bundled with EX-M2 Only)	Input/Output Terminals: Camera connector; headphones jack (ø3.5mm stereo mini jack) Cord Length: Approximately 0.8m (31.5") Dimensions: 74.5(W) x 16(H) x 11(D) mm (2.9"(W) x 0.6"(H) x 0.4"(D)) (excluding projections, excluding cradle) Weight: Approximately 28 g (1.0 oz)

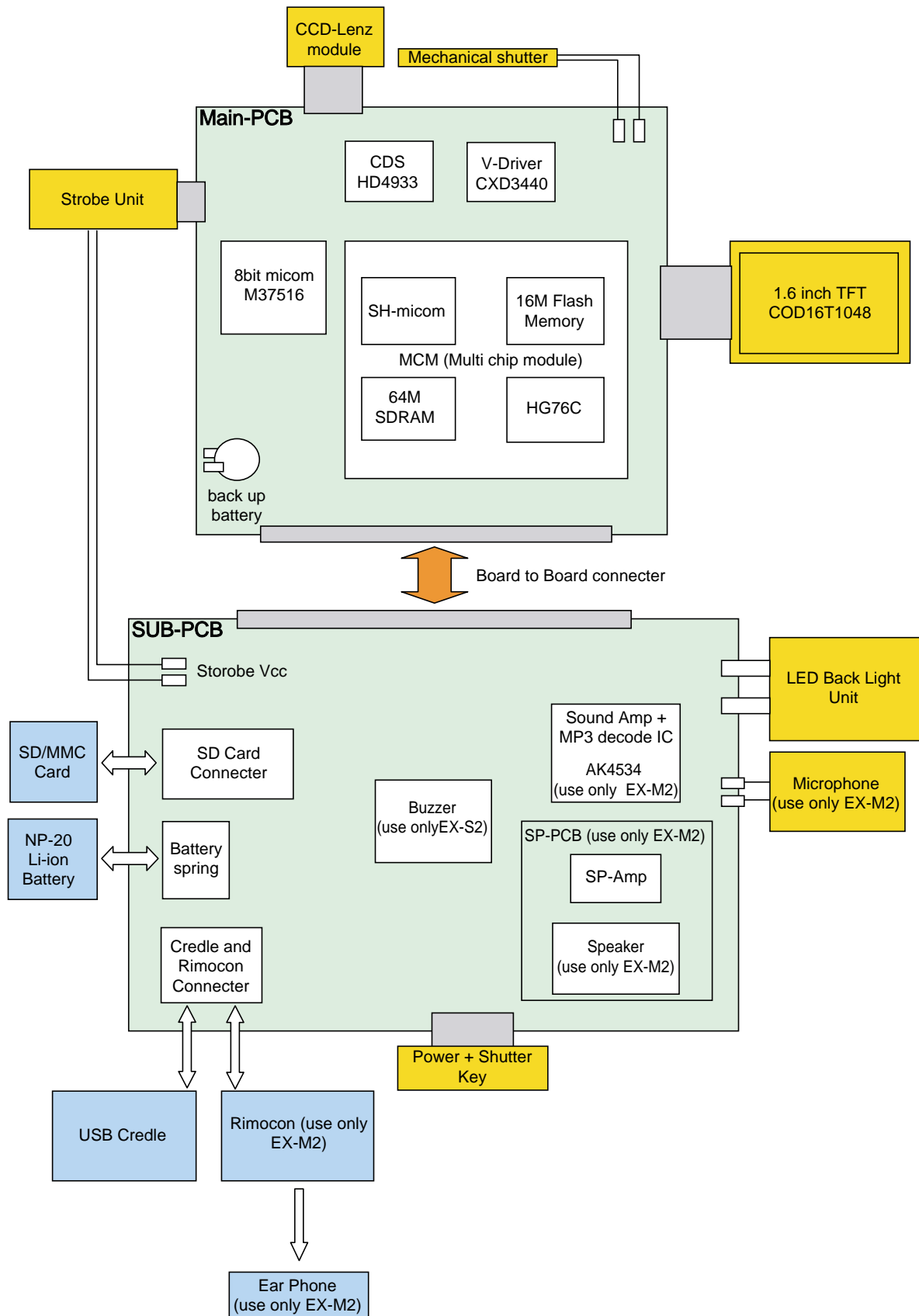
Power Supply

- Use only the special NP-20 rechargeable lithium ion battery to power this camera. Use of any other type of battery is not supported.
- This camera does not require a battery for the clock. The date and time settings of the camera are cleared whenever power supplied by both the battery and USB cradle is interrupted. Be sure to reconfigure these settings after power is interrupted.

LCD Panel

- The LCD panel is a product of the latest LCD manufacturing technology that provides a pixel yield of 99.99%. This means that less than 0.01% of the total pixels are defective (they do not turn on or always remain turned on).

BLOCK DIAGRAM



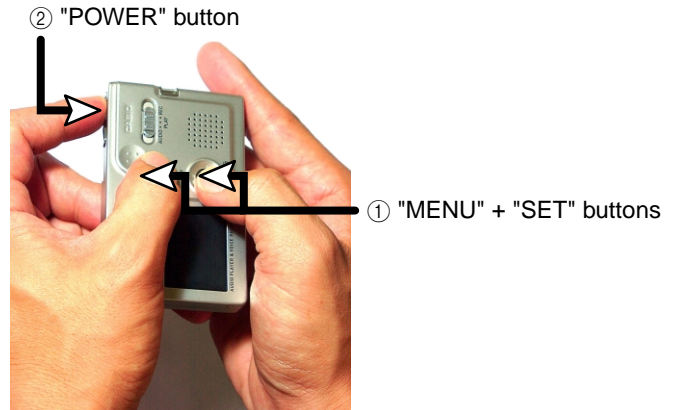
TEST MODE

Note: Do not perform the menu item unless explained here. (It may damage the internal data and camera becomes unusable.)

Booting

To boot the test mode

While firmly pressing down both "MENU" and "SET" buttons, Turn the power on.
Continue pressing "MENU" and "SET" until the MAIN MENU is displayed.



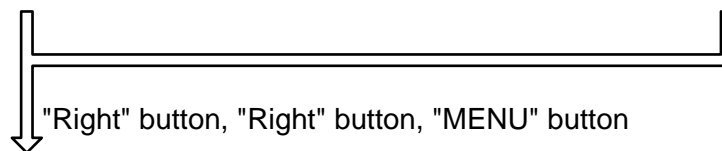
While holding the camera in a horizontal position, press the set button twice towards your "RIGHT" and then press "MENU".

EX-S2 (as of August 06, 2002)

```
++ KX853 ++  
PR : 02.08.02.10.14  
LD : 1.06  
MI : 41
```

EX-M2 (as of August 06, 2002)

```
++ KX854 ++  
PR : 02.08.02.10.01  
LD : 1.06  
MI : 41
```



```
1 :VERSION INFO  
2 :VIDEO OUT  
3 :USB TCC TEST  
* 4 :TEST MENU  
5 :BEEP TEST  
6 :TASK-2 TEST  
7 :ROM UPDATE  
8 :ADJ TEST  
9 :REC-INFO  
10 :TEST SCRIPT  
11 :LAST MEMORY
```

SET button

MENU button

```
* 1 :KEY CHECK  
2 :VOCM CHECK  
3 :MEMORY CHECK  
4 :COLOR CHECK  
5 :UGAIN CHECK  
6 :VGAIN CHECK  
7 :MESSAGE CHECK  
8 :LED CHECK  
9 :SW&JACK CHECK
```

PROGRAM VERSION UPGRADING

■ Introduction

Update the program using an SD card.

Note:

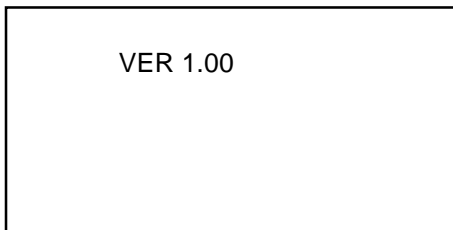
Make sure to use a fully charged battery.

MAIN PCB becomes unusable if power down or an error occurs during program transmission.

1. How to confirm the program version

■ The program version can be confirmed in the test menu (refer to the previous page).

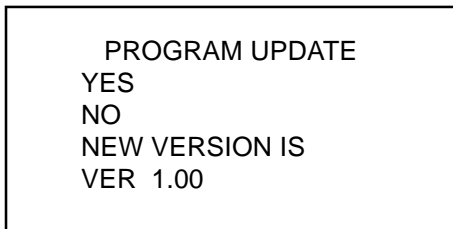
■ Turn the power on while pressing MENU button.
The following program version also can be found.
Check the LCD display.
(Example)



(As of August 06. 2002)

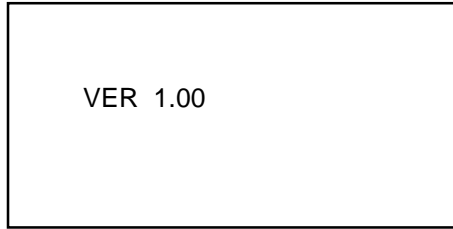
2. How to update the firmware

1. Prepare the memory card which contains the software for upgrading EX-S2/EX-M2 firmware in the root directory.
EX-S2 ex-s2.bin
EX-M2 ex-m2.bin
2. Insert the above memory card in the camera and then set a fully charged battery in the camera.
3. While pressing MENU, press power switch. Keep pressing MENU until "PROGRAM UPDATE" appears in the camera LCD.
 - The following appears.
 - The version for the firmware update software in the memory card appears at the bottom.



4. Align the white cursor to "YES" by the cross key of ▲ and ▼, and press SET of the center of the cross key.
 - "NOW LOADING" appears in the LCD and the update starts.
5. "COMPLETE" appears after the update finishes.

6. Remove the memory card after turning the power off once. Turn the power back on again while pressing MENU, and check the version.



- “VER 1.00” appears this time.
7. If the version is correct, turn the power off.
 8. Finally, check the operation by recording, playing back and deleting an image.

3. How to restore the firmware

1. Prepare the following firmware restoration program and change its name as follows;
EX-S2 kx853r0802.hbn → mercury.bin
EX-M2 kx854r0802.hbn → mercury.bin
2. Copy the above file to the root directory in the memory card.
3. Insert the memory card into the camera.
4. Set a fully charged battery in the camera.
5. Turn the power on while pressing the shutter release button.
The LED next to the optical finder changes from orange blinks → green blinks → green lights.
6. When the green LED lights, the firmware restoration is finished.
Remove the battery.
7. Turn the power on again while pressing MENU and SET buttons.
The firmware is successfully restored if the corresponding version appears next to “PR” in the opening screen of the test menu.
EX-S2 PR: 02.08.02.10.14
EX-M2 PR: 02.08.02.10.01
8. Finally, start the camera normally to check the operation by recording, playing back and deleting an image.

COLOR ADJUSTMENT

■ Introduction

Make sure to perform the adjustment when replacing the lens unit or the MAIN PCB.

The necessary software, driver and setting are explained in using USB ADJ Tool "adj331e.exe (Ver.1.1).

Note that the tool, drivers etc. are available only for Windows.

1. How to use USB ADJ Tool

1-1. Prepare the necessary software, driver and DLL file.

- (1) Prepare the following three files.
 - Commom test driver for CASIO/PENTAX
[testmode_pentax_casio] folder uusbdriver.dll
 uusbdriver.inf
 uusbdriver.sys
 - ADJ data read/write tool "adj331e.exe"
 - Commom DLL for USB test "uusbdriver.dll"
- (2) Place the commom test driver for CASIO/PENTAX in an appropriate place.
- (3) After downloading the common DLL for USB test, copy it to the same directory as that of the ADJ data read/write tool or under "c:\windows\system".

1-2. Set the camera so that it recognizes the USB test mode.

- (1) Enter the test mode and then the initial test selection screen.
Turn the power on while pressing both "MENU" and "SET".
Press "RIGHT", "RIGHT" and "MENU".
- (2) Move the cursor to "3:USB TCC TEST" and press "SET".
- (3) Move the cursor to "1:USB TCC ON" and press "SET".
- (4) Press "MENU" button and leave the test mode.
- (5) This enables the camera to recognise the USB test mode flag.
- (6) When the USB test mode flag is ON, the test menu appears first when the camera power is turned on.
* If the USB test mode flag should be OFF, set "2: USB TCC OFF" in the test menu.

1-3. Install the USB driver for the USB test mode in the computer.

(The following is an example using the Windows Me.)

- (1) Prepare the USB driver for the USB test mode.
- (2) Turn the camera power on which is set in the USB test mode and let it enter the USB test mode as shown in 2.(the test menu appears right after the power is turned on).
- (3) Connect the camera in the above status to the computer by the USB cable.
- (4) "A wizard for the new hardware" appears.
- (5) Check "Designate the place for the driver (for users with sufficient knowledge)" and press "Next".
- (6) Check "Search for the optimum driver for the device (recommended)".
- (7) Check "Designate the place to search" , designate the place which contains "inf" file in the driver by pressing "Reference" button, and then press "Next" button.
- (8) When "Universal USB Driver (VMEM manufacturer's name)" appears upon message "Searching for the driver file for the following devices" , press "Next" button.
- (9) The file copy starts.
(If a message "uusbd.inf cannot be found" appears during the file copy, designate the same place as in the step 7).
- (10) Press "Complete" button.
- (11) Right-click "My computer", select "Property" and open "Device manager". If "Universal USB Driver (VMEM manufactur's name)" can be found in "USB device for UUSBD", the computer has successfully recognised the driver.
- (12) The test driver can be used for both CASIO/PENTAX. Installing the test driver into either one enables the other one to recognise it.

NOTE: How to uninstall the USB driver for the USB test mode

- Connect the camera while in the USB test mode to the computer so that the computer recognises the camera.
- Right-click "My computer", select "Property" and open "Device manager".
- Select "USB device for UUSB" , and then "Universal USB Driver (VMEC manufacturer's name)".
- Press "Delete" button and delete the driver.
- When using Windows98/98SE/Me, delete the following three files;
(NOTE! Do NOT delete "usbdev.inf" and "usbdev.sys", whose names are much alike the following.)
C:\windows / inf / uusbdev.inf
C:\windows / inf / other / KashiwanoUUSB.inf
C:\windows / system32 / drivers / uusbdev.sys
- The driver has been successfully deleted.

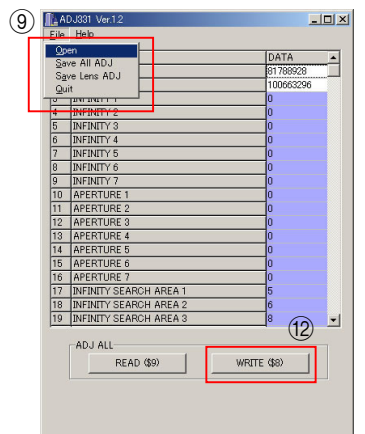
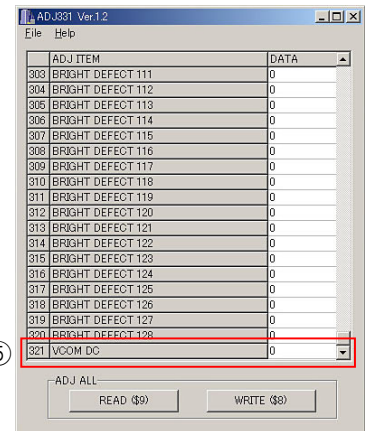
1-4. Use the USB ADJ Tool

- (1) Prepare ADJ data read/write tool "adj331e.exe".
- (2) Copy the common DLL for USB test to the same directory as that of the ADJ data read/write tool "adj331e.exe" or under "c:\windows / system".
- (3) Turn the camera power on which is set in the USB test mode and let it enter the USB test mode (the test menu appears right after the power is turned on).
Connect the camera to the computer by the USB cable.
- (4) Boot "adj331e.exe." and use it as follows;
 - Read ADJ data from the camera. → Press "read from the camera".
 - Write ADJ data into the camera. → Press "write into the camera".
 - Save ADJ data which is read. → Press "File" and "Save", and save it with an appropriate name.
 - Open ADJ data which is saved. → Press "File" and "Open", and open the necessary file.

2. Lens Replacement

Make sure to perform the following procedure after replacing the lens.
A floppy disk with the lens data is bundled in the spare parts of the lens unit.

- ① Enter the TEST mode.
 1. Turn the power on while pressing both "MENU" and "SET" buttons.
 2. Press "RIGHT" button, "RIGHT" button and "MENU" button while the program version is displayed.
 3. Select "3.USB TCC TEST".
 4. Select "1. USB TCC ON".
 5. Turn the power OFF.
- ② Set the QV to the cradle and turn the power on and connect it to the computer by the USB cable.
- ③ Boot "adj331e.exe".
- ④ Click "ADJ ALL READ", and display the data on the "adj331e.exe".
- ⑤ Find the No.321, "V-COM DC".
- ⑥ Write down this value(data).
- ⑦ Replace the Lens unit.
- ⑧ Perform the above ① to ③
- ⑨ From "File/Open", open the bundled floppy disk, and transfer the data to the "adj331e.exe".
- ⑩ Find the No.321, "V-COM DC"
- ⑪ Change the data to the former value.(Refer to ⑥).
- ⑫ Click "WRITE" button of "ADJ ALL".
- ⑬ After adjustment, change "1. USB TCC ON" to "2. USB TCC OFF".



3. MAIN PCB Replacement

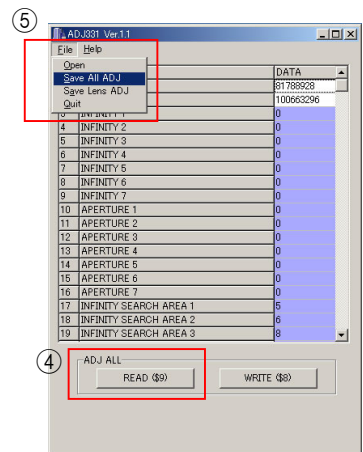
Make sure to backup ADJ DATA before replacing the MAIN PCB.

IMPORTANT NOTICE:

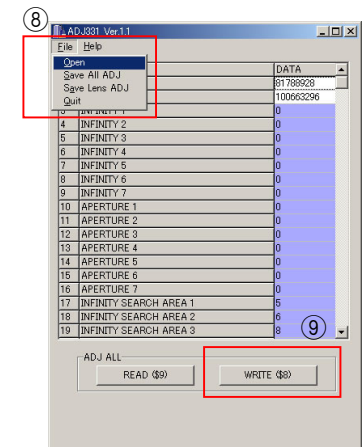
The MAIN PCB is a common part for EX-S1, EX-M1, EX-S2 and EX-M2 as a spare part.
After replacing MAIN PCB, firm up and system initialization should be required.
Refer to the service bulletin QV-068.

- ① Enter the TEST mode.
 1. Turn the power on while pressing both "MENU" and "SET" buttons.
 2. Press "RIGHT" button, "RIGHT" button and "MENU" button while the program version is displayed.
 3. Select "3.USB TCC TEST".
 4. Select "1. USB TCC ON".
 5. Turn the power OFF.
- ② Set the QV to the cradle and turn the power on and connect it to the PC by the USB cable.
- ③ Boot "adj331e.exe".

- ④ Click "ADJ ALL READ", and display the data on the "adj331e.exe".
- ⑤ Save the data.
- ⑥ Replace the MAIN PCB.
- ⑦ Perform the above ① to ③.



- ⑧ Open the file which is saved above, and display the data on the "adj331e.exe".
- ⑨ Click "WRITE" button of "ADJ ALL".
- ⑩ After adjustment, change "1. USB TCC ON" to "2. USB TCC OFF".



4. Operation and Current consumption

1. Operation check

- ① Anti-shock, Battery operations
- ② Switch, buttons operations
- ③ SD CARD insertion/eject operation, battery cover open/close operation
- ④ Resolution and color repeatability check
- ⑤ AE operation
- ⑥ Charging and cradle connection (USB function etc.) check
- ⑦ Appearance check
- ⑧ Buzzer check (EX-S2 only)
- ⑨ Recording with a microphone, speaker and earphone sound production, and remote controller operation check (EX-M2 only)

2. Current consumption test

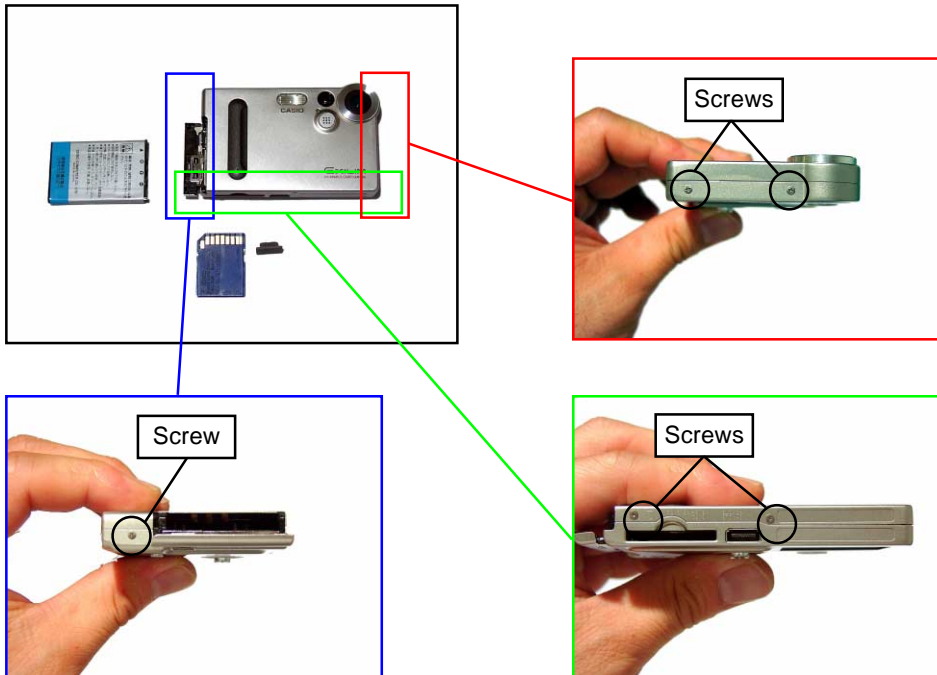
Current consumption ($V_{cc1} = 3.60 \pm 0.05$ [V])

- Make sure that current consumption is less than 450 mA in PLAY mode.
- Make sure that current consumption is less than 530 mA in REC mode.
- Make sure that current consumption is less than 2mA when power is turned OFF.

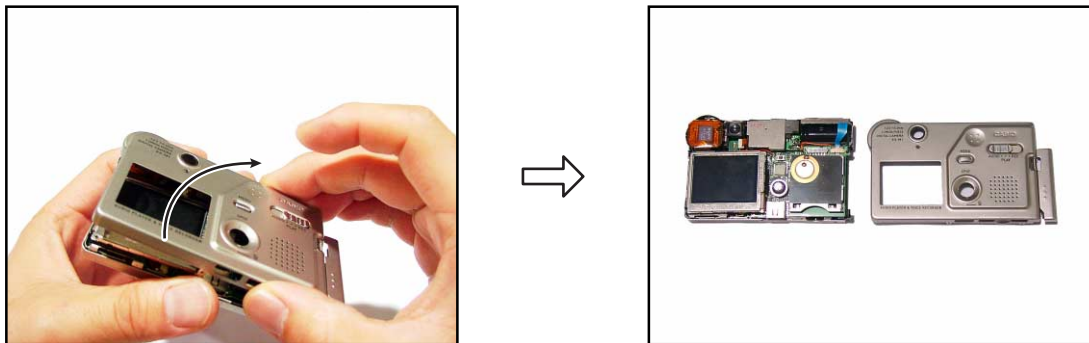
DISASSEMBLY

NOTE : Here EX-M2 is used.

1. Remove the CARD, BATTERY and the JACK COVER.
2. Remove five screws.

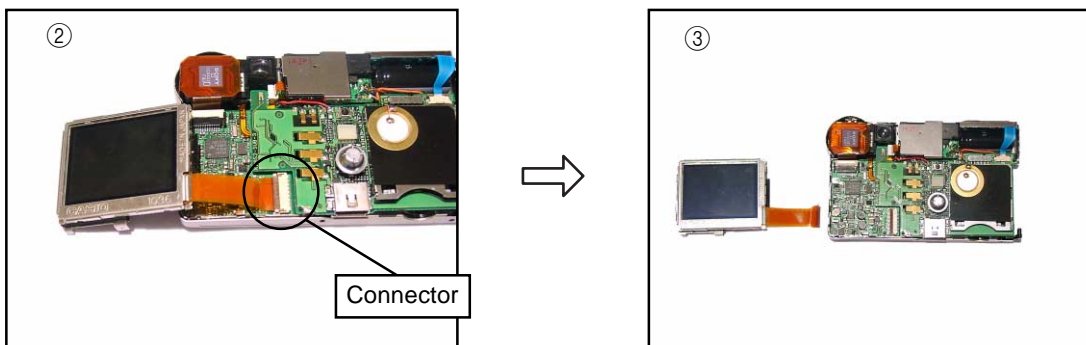
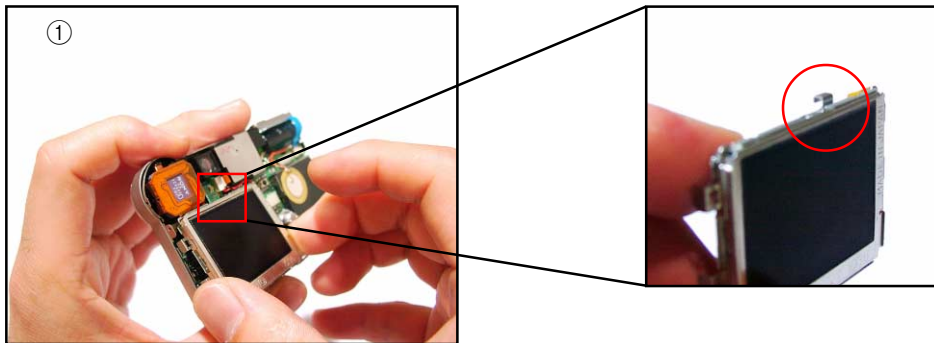


3. Remove the REAR CASE ASSY.



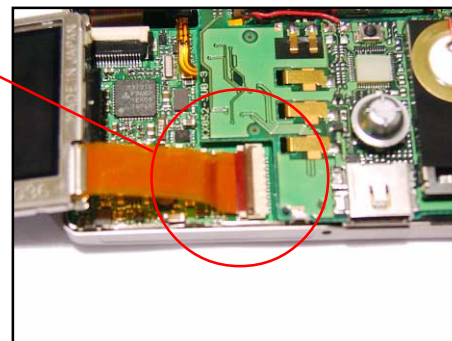
4. Removing the LCD ASSY

- ① Remove the hook from the MAIN PCB and slide the LCD ASSY.
- ② Remove the CONNECTOR.
- ③ Remove the LCD ASSY.

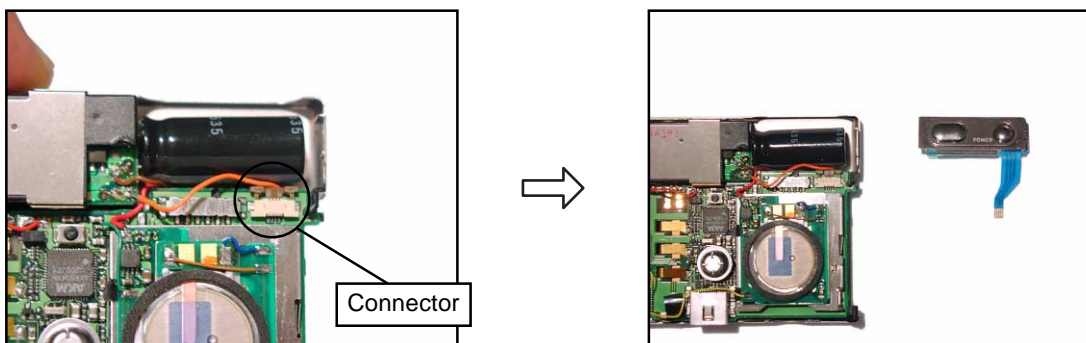


NOTE:

Fix the FPC to the CONNECTOR tightly when assembling.



5. Remove the FPC from the CONNECTOR and then remove the SW UNIT.



6. Removing the SUB PCB ASSY

① Unsolder the five lead wires.

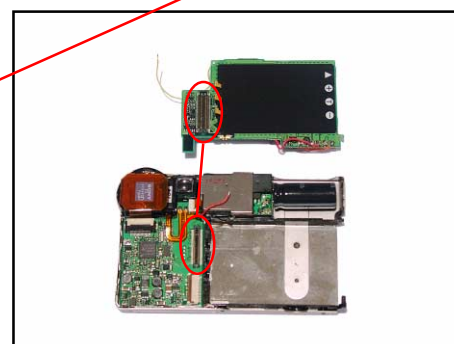
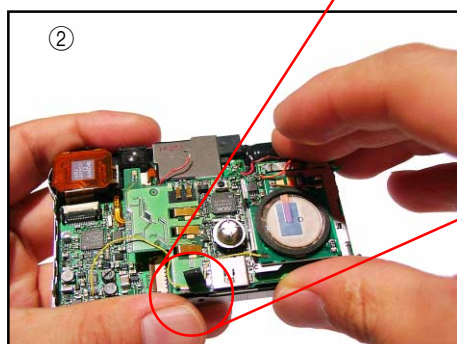
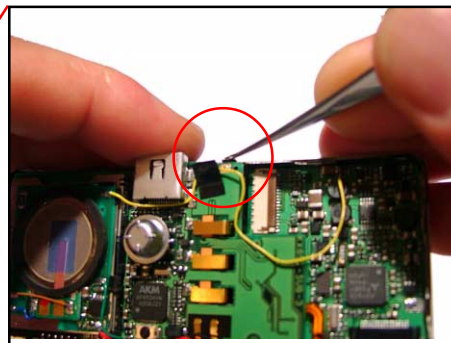
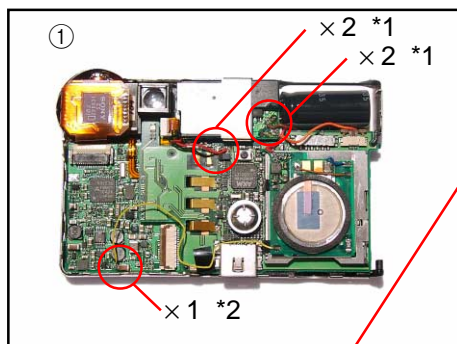
② Remove the hook and then the SUB PCB ASSY.

The SUB PCB is connected to the MAIN PCB by the CONNECTOR.

Note in assembling

*1 Position these four lead wires in the space between the MAIN PCB and the SUB PCB.

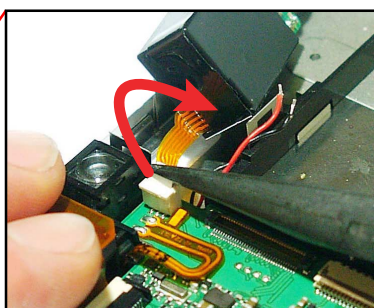
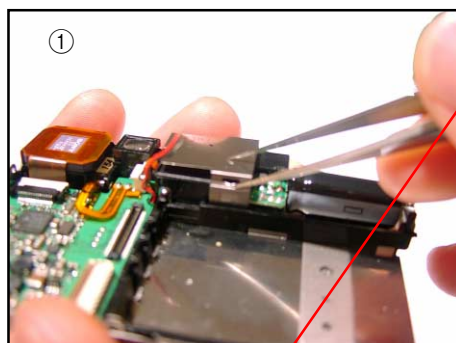
*2 Make sure that this lead wire does not touch the battery spring.



7. Removing the STROBE UNIT (NOTE: The STROBE UNIT does not need be discharged.)

① Remove the STROBE PLATE.

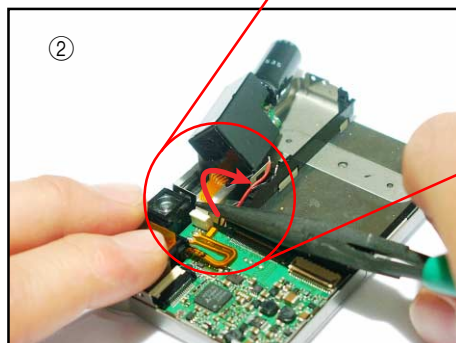
② Remove the CONNECTOR and then the STROBE UNIT.



Remove the CONNECTOR by twisting it toward the right by a pliers.

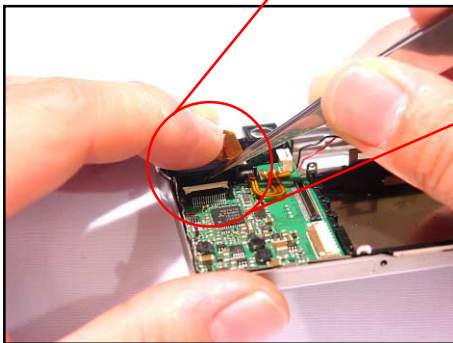
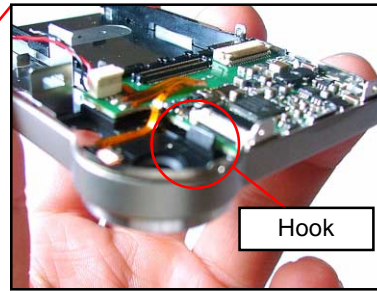
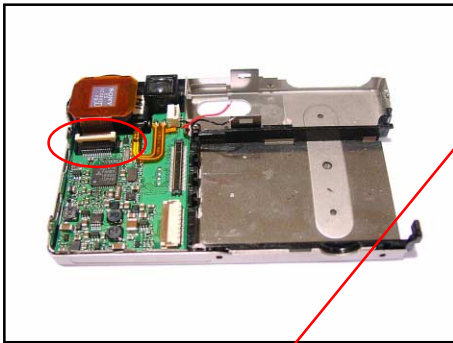
NOTE:

Pinch the reinforced part so that the CONNECTOR is not hurt.
Use a pliers when assembling also.

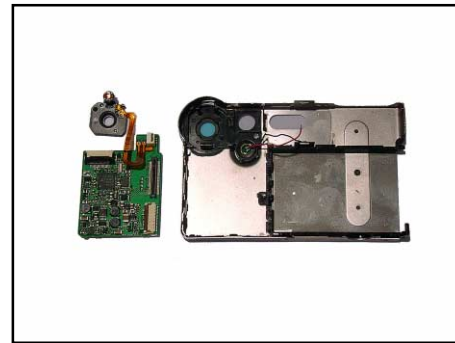
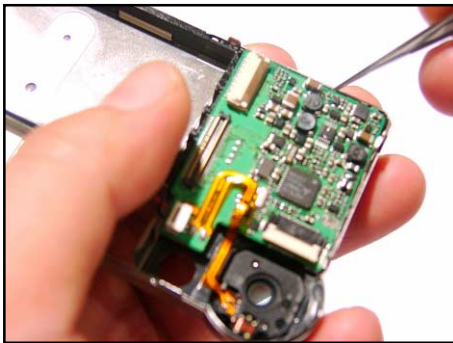


8. Removing the LENS UNIT

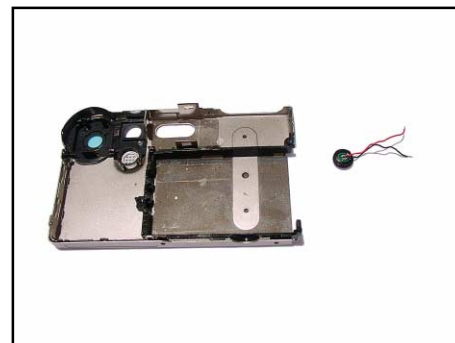
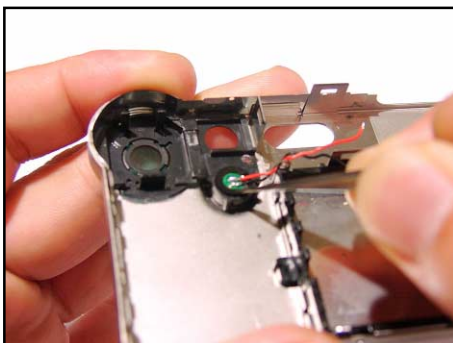
- ① Remove the CONNECTOR.
- ② Remove the LENS UNIT while taking care of the hook.



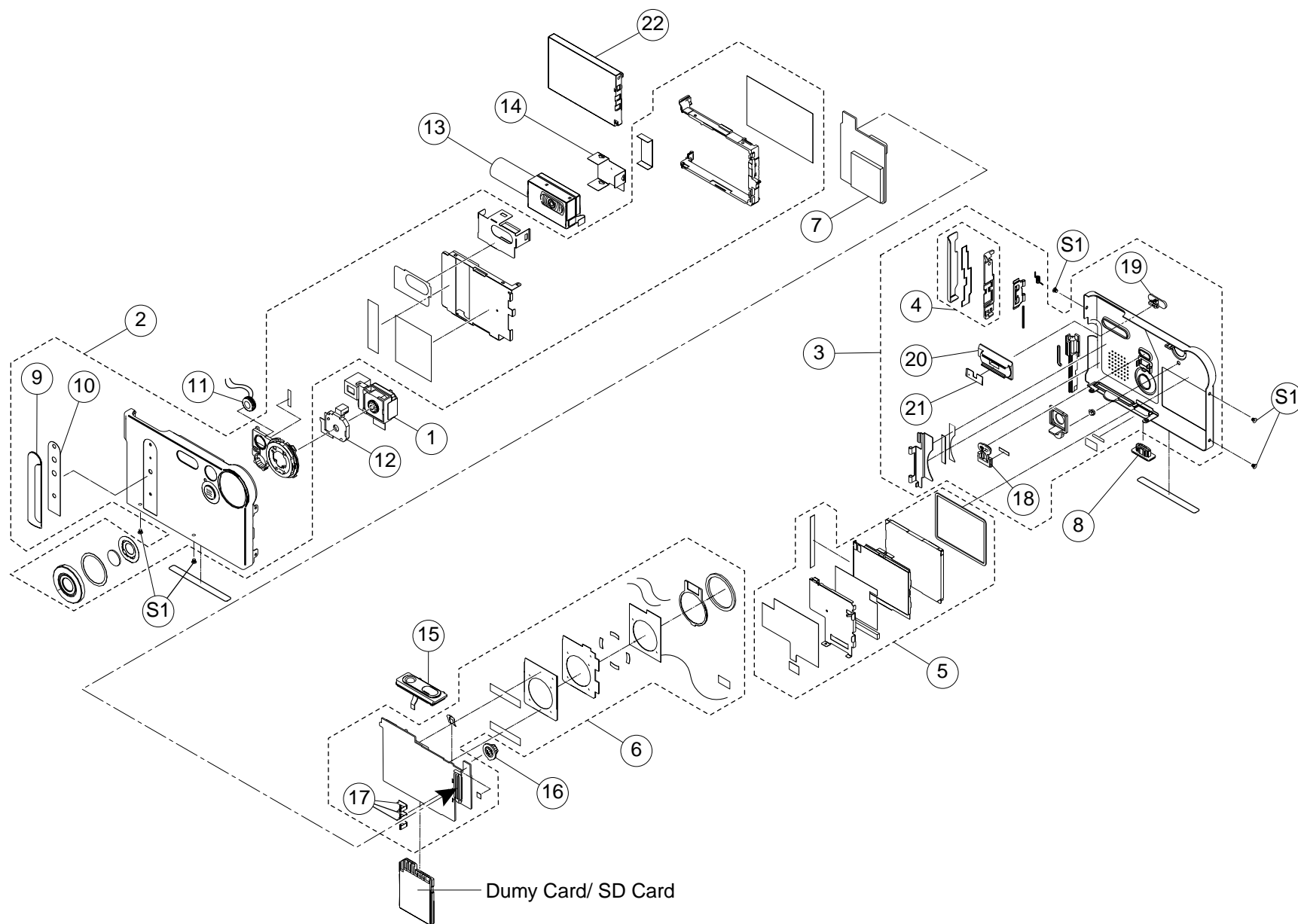
9. Remove the MAIN PCB.



10. Remove the microphone (EX-M2 only).



EXPLODED VIEW

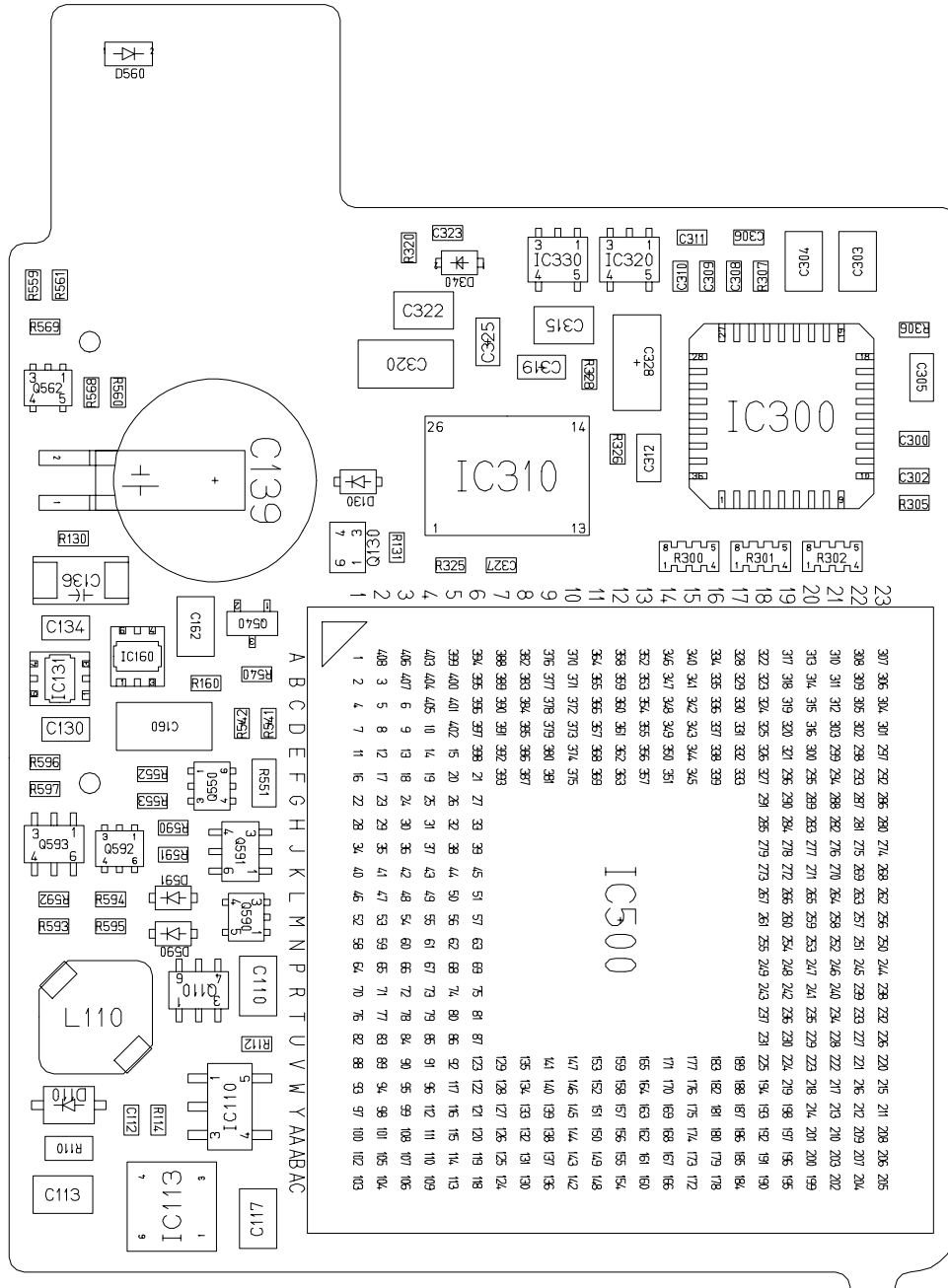


PARTS PRICE LIST
EX-S2 / EX-M2

N	Item	Parts Code	Parts Name	Specification	QTY		Price Code	R	Remarks
					EX-S2	EX-M2			
N	1	1009 2320	LENS UNIT	RJK503591*001V01TK	1	1	DV	B	
N	2	1009 2324	ASSY / FRONT CASE K853	RJK503592*003V01TK	1	0	CY	B	EU,UK
N	2	1009 2331	ASSY / FRONT CASE K854	RJK503609*002V01TK	0	1	DA	B	EU,UK
N	2	1009 2322	ASSY / FRONT CASE K853	RJK503592*001V01TK	1	0	CW	B	Except EU, UK
N	2	1009 2330	ASSY / FRONT CASE K854	RJK503609*001V01TK	0	1	CY	B	Except EU, UK
N	3	1009 2327	ASSY / REAR CASE K853	RJK503594*003V01TK	1	0	CV	B	EU,UK
N	3	1009 2333	ASSY / REAR CASE K854	RJK503605*002V01TK	0	1	CV	B	EU,UK
N	3	1009 2325	ASSY / REAR CASE K853	RJK503594*001V01TK	1	0	CQ	B	Except EU, UK
N	3	1009 2332	ASSY / REAR CASE K854	RJK503605*001V01TK	0	1	CP	B	Except EU, UK
N	4	1009 2329	ASSY / BATTERY COVER	RJK502891*004V01TK	1	1	AZ	B	EU,UK
N	4	1008 5223	ASSY / BATTERY COVER	RJK502891*001V01TK	1	1	AN	B	Except EU, UK
-	5	1008 5225	LCD ASSY	RJK502889*001V01TK	1	1	DB	A	
-	6	1008 5226	PCB ASSY / S	RJK502890*001V01TK	1	0	CH	B	
-	6	1008 4969	PCB ASSY / S	RJK502954*001V01TK	0	1	CY	B	
-	7	1008 7571	PCB ASSY / MAIN	RJK503309*001V01TK	1	1	DY	A	
-	8	1008 3508	CAP / CONNECTOR A-K851	RJK503051-001V01	1	1	AB	X	
N	9	1009 0055	GRIP A-K853	RJK503493-001V01	1	1	AG	X	
N	10	1009 0073	ADHESIVE TAPE / GRIP	RJK503569-001V01	1	1	AA	X	
-	11	1008 4818	CONDENSER MIKE	EML6253X3200G	0	1	AP	C	
N	12	1009 0045	SHUTTER UNIT	AKE-1347	1	1	BH	A	
-	13	1008 4761	STROBE UNIT	EFN-CAQ33	1	1	CC	A	
-	14	1008 1391	PLATE / STROBE A-K851	RJK502815-001V01	1	1	AA	X	
N	15	1008 4763	SW UNIT	UBF013M02A	1	1	BD	A	
-	16	1008 1380	KEY / CURSOR A-K851	RJK502714-001V01	1	0	AE	C	
-	16	1008 1395	KEY / CURSOR A-K852	RJK502832-001V01	0	1	AE	C	
-	17	1008 1358	SPRING / BATTERY	RJK502706-001V01	3	3	AB	X	
-	18	1008 1379	BUTTON / MENU A-K851	RJK502713-001V01	1	0	AE	C	
-	18	1008 1397	BUTTON / MENU A-K852	RJK502835-001V01	0	1	AE	C	
-	19	1008 1373	KNOB / SW A-K851	RJK502697-001V01	1	0	AF	X	
-	19	1008 1375	KNOB / SW A-K852	RJK502701-001V01	0	1	AF	X	
-	20	1008 1374	SW BASE A-K851	RJK502699-001V01	1	0	AF	X	
-	20	1008 1396	SW BASE A-K852	RJK502834-001V01	0	1	AF	X	
-	21	1008 1356	PLATE / SW A-K851	RJK502700-001V01	1	0	AA	X	
-	21	1008 1371	PLATE / SW A-K852	RJK502819-001V01	0	1	AA	X	
-	S1	1008 1372	SCREW A-K851	RJK502836-001V01	5	5	AA	X	
PCB ASSY / MAIN									
-	C139	1008 5385	CONDENSER / BACKUP	EECENOF204R	1	1	AL	C	
PCB S-UNIT									
-	FU800	1005 7715	FUSE	KMD13	1	1	AB	C	
-	SW801	1008 5453	SWITCH	SKRKAAE010	1	1	AD	C	
-	SW803	1008 5455	SWITCH	SSSS810301	1	1	AC	C	
ACCESSORY									
-	22	1008 5901	BATTERY / LITHIUM-ION	MK11-2443	1	1	BX	C	
N	-	1009 2851	CD-ROM	CK853DCA01R	1	1	AJ	C	
-	-	1008 5906	ADAPTOR / AC	AD-C50G-WW	1	1	BT	C	EXCEPT USA
-	-	1008 5887	ADAPTOR / AC	AD-C50J-WW	1	1	BR	C	USA *1
-	-	1000 6299	CORD / AC	CBL-K799-AC-JU	1	1	AO	X	For USA type *2
-	-	1000 6300	CORD / AC	CBL-K799-AC-EU	1	1	AR	X	For EURO type
N	-	1009 0406	CORD / AC	CBL-K851-AC-UK	1	1	BE	X	For UK type
-	-	1008 5898	USB CABLE	UC-K851-CL10	1	1	AO	C	
-	-	1008 5899	CRADLE	WAU0990-000AL	1	1	CN	C	
-	-	1008 5911	HEADPHONE	HP-K852-SR	0	1	AW	C	
-	-	1008 5912	REMOTE CONTROLLER	R66-5819	0	1	CO	C	
N	-	1008 5897	STRAP	ST-K851-A	1	1	AE	X	
-	-	1009 1600	DUMY CARD	RJK503523-001V01	1	1	AB	C	

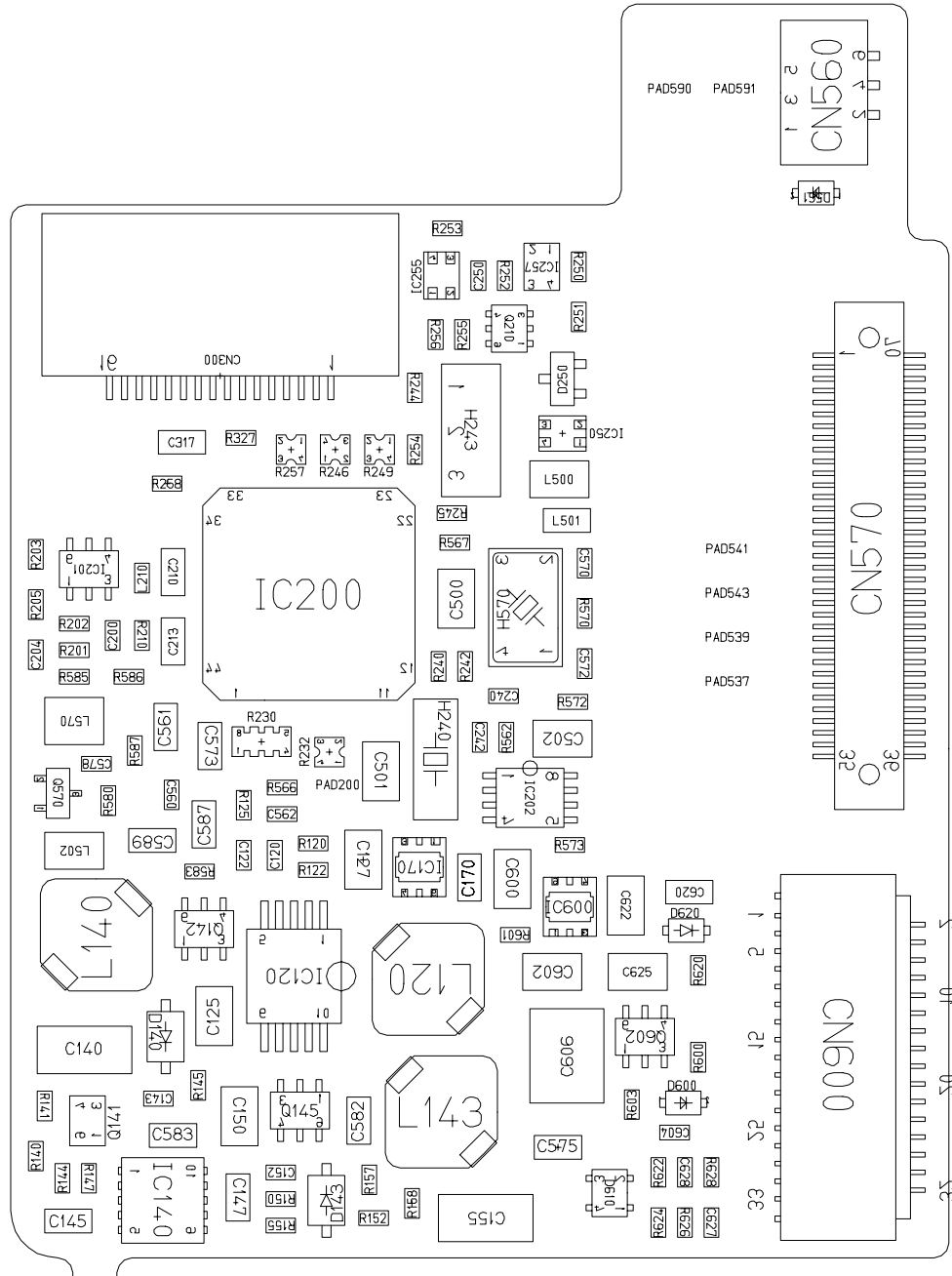
*1 : AC PLUG is built-in. *2 : Blade type

MAIN PCB



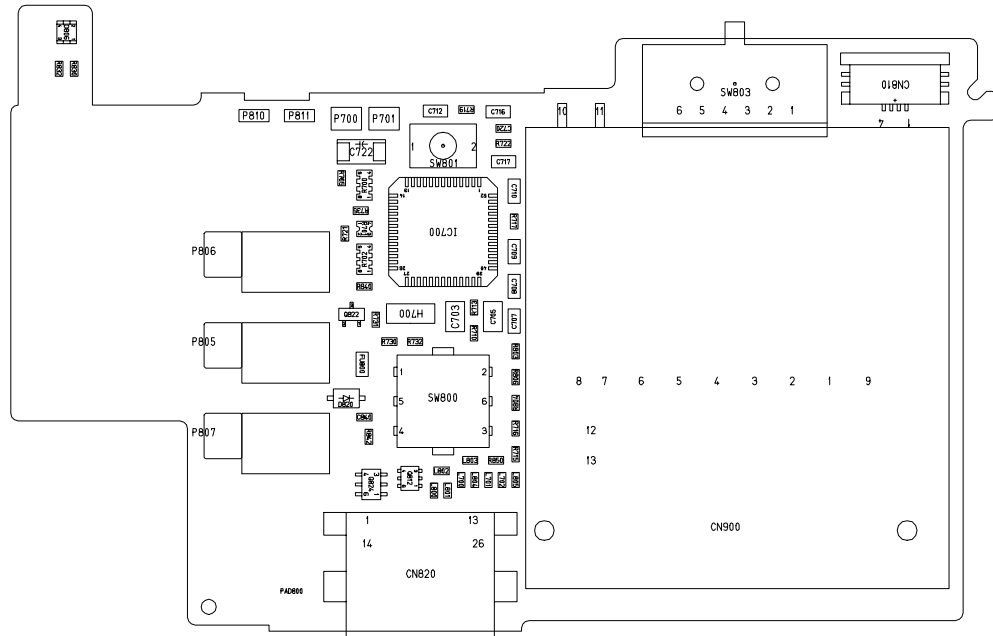
TOP VIEW

MAIN PCB

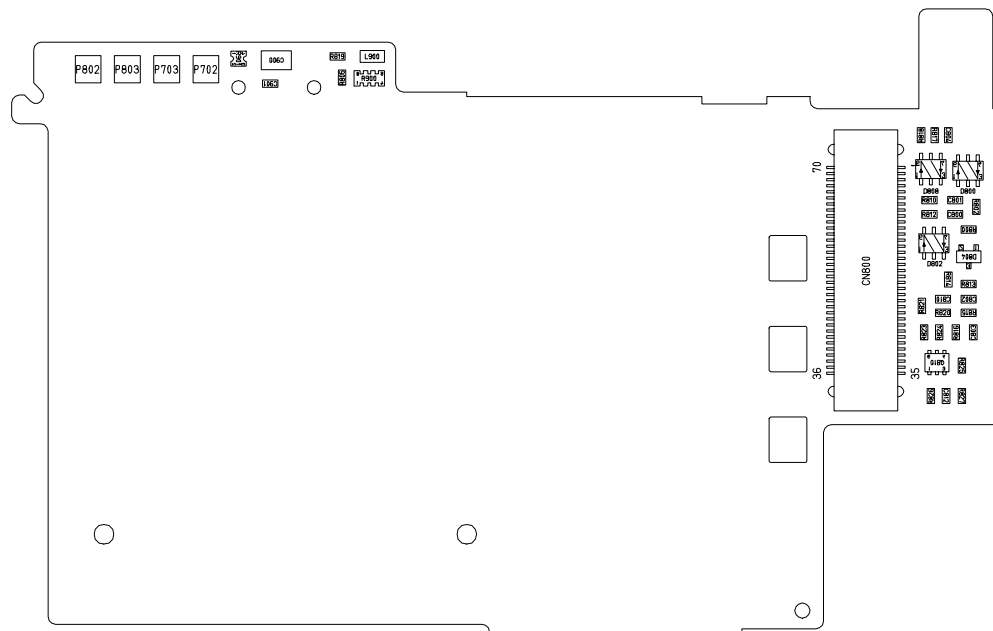


BOTTOM VIEW

SUB PCB



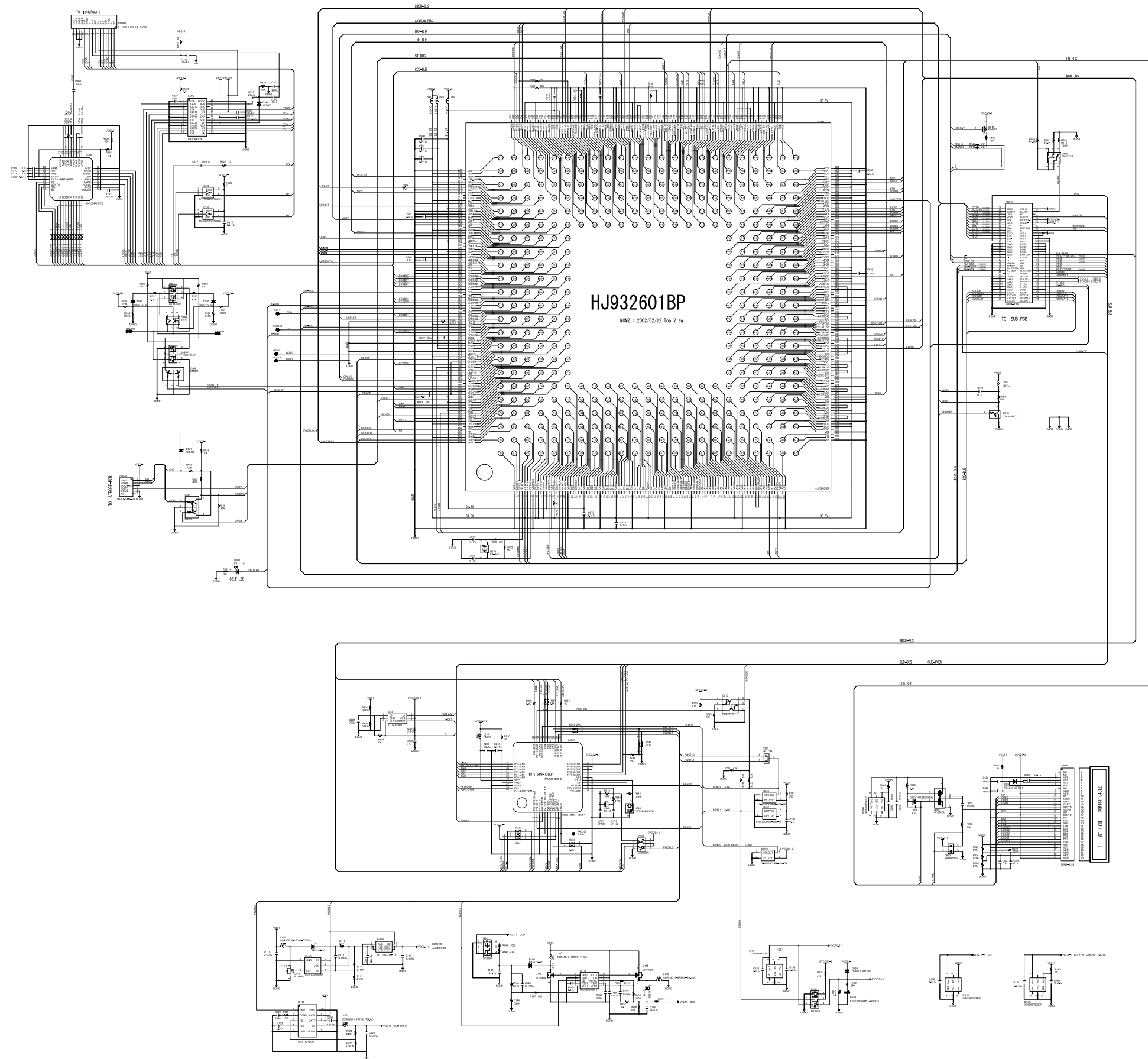
TOP VIEW



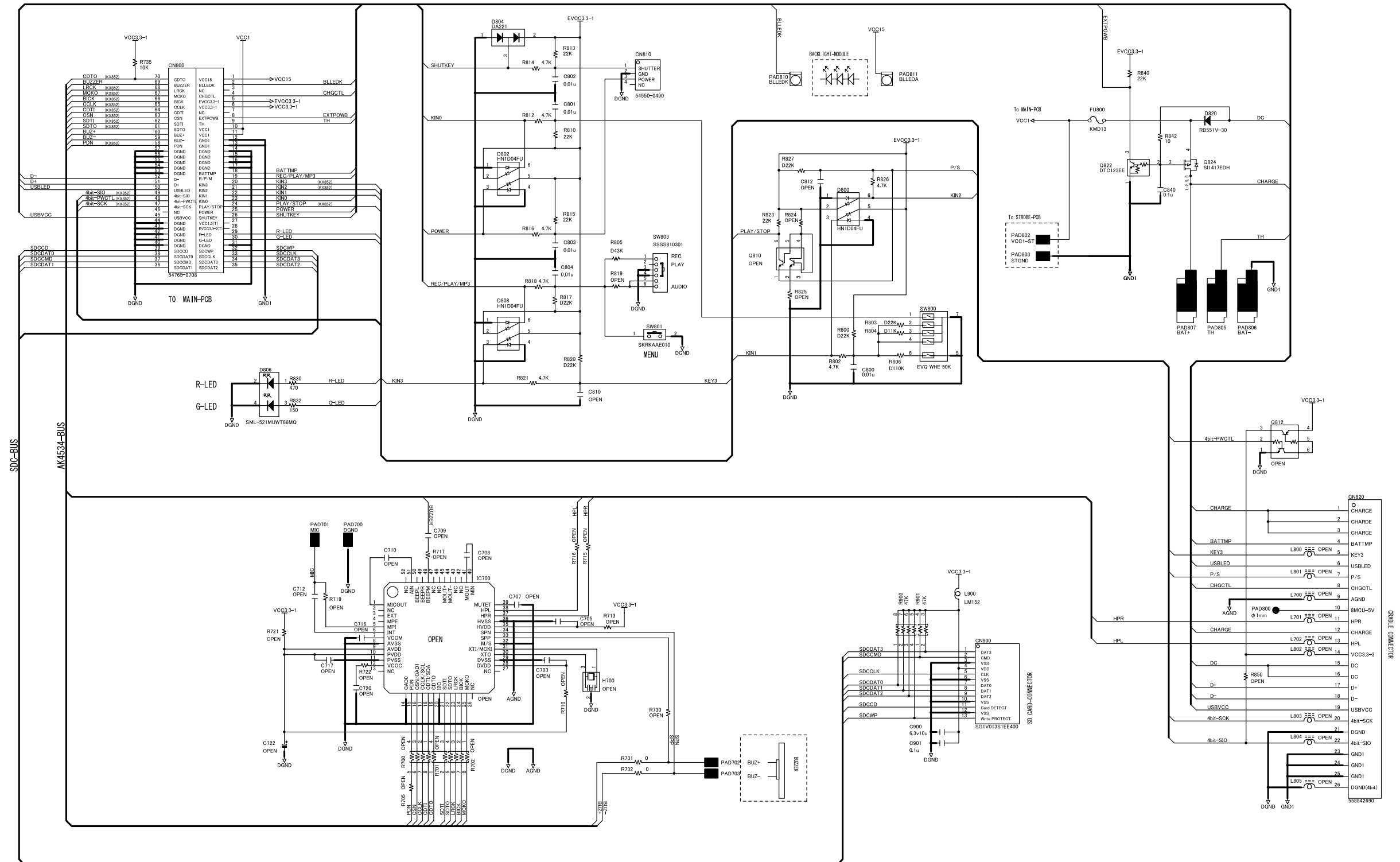
BOTTOM VIEW

SCHEMATIC DIAGRAMS

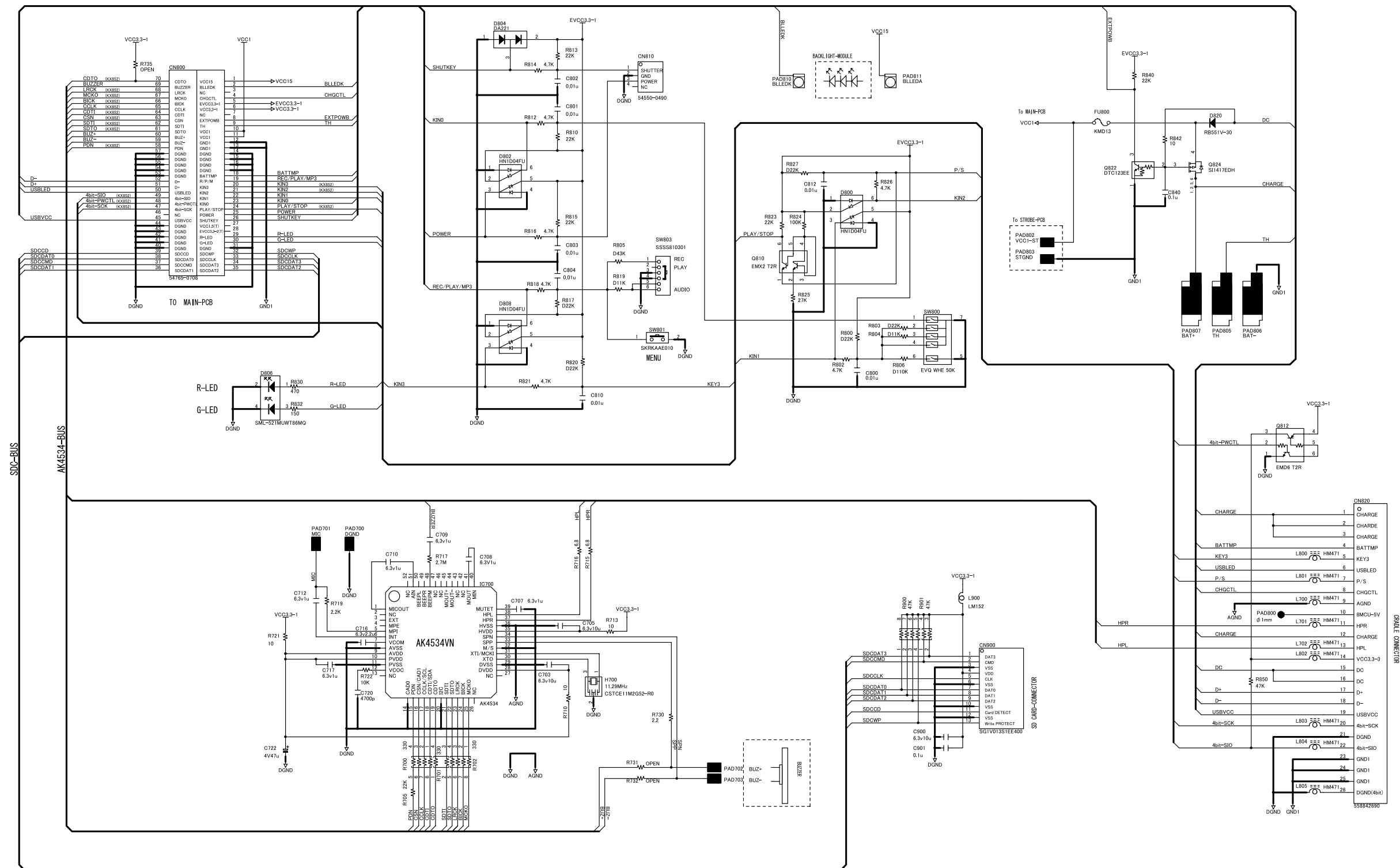
MAIN PCB



SUB PCB (EX-S2 only)



SUB PCB (EX-M2 only)



Ver. 1 : Correction of page 5, 6, 7, 8, 9, 10, 11 and 17.
Ver. 2 : Correction of page 15.
Ver. 3 : Correction of page 17.

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